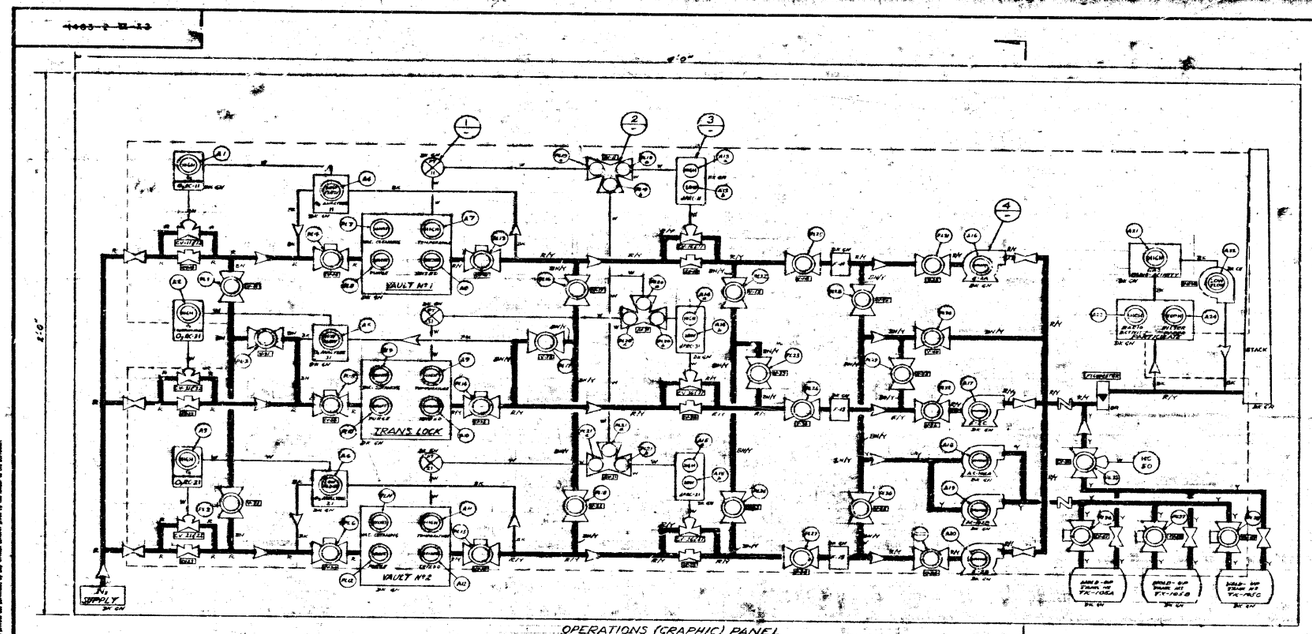
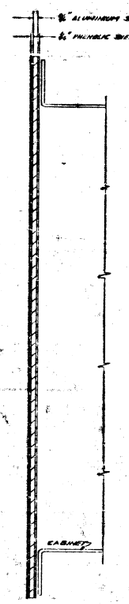


OPERATIONS (GRAPHIC) PANEL
¼" SCALE



SECTION (A)
¼" SCALE

LEGEND

MANUAL SHUT-OFF VALVES

REMOTE OPERATED SHUT-OFF VALVES

MODULATING CONTROL VALVES

PILOT LIGHT P.L.-1 — GREEN: VALVE OPEN; AMBER: VALVE CLOSED

ALARM LIGHT A-1 — RED (THROWER AS SHOWN)

VALVE POSITION LIGHT — GREEN = OPEN POINT

ROTAMETER — ORANGE WITH BLACK TRIANGLE

CHECK VALVE

COLOR CODE

R	RED	W	WHITE
O	ORANGE	BK	BLACK
Y	YELLOW	R/Y	RED WITH YELLOW BAND
G	GREEN	B/Y	B. CHAN. WITH YELLOW COIN
BL	BLACK		½" WIDE STRIP
BR	BROWN		¼" WIDE STRIP
GR	GREY		

BACKGROUND SHALL BE LIGHT GREEN.

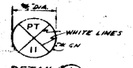
ALL VALVES AND DIRECTION ARROWS TO BE THE SAME COLOR AS THE LINE THEY ARE LOCATED ON.

ALL EQUIPMENT SYMBOLS SHALL BE DARK GREEN.

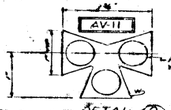
ALARM SEQUENCE

CONDITION	LIGHT				HORN	
	R.P.V.	ANNUN. WINDOW	ANNUN. LENS	ANNUN. LAMP	OFF	R.V.
NORMAL						
ALARM		✓	✓	✓	✓	✓
ACKNOWLEDGE (TROUBLE CAUSE NO RELIEF) (MANUALLY)		✓	✓	✓	✓	✓
LAMP TEST-ALARM		✓ ALL EXCEPT PANEL	✓	✓	✓	✓
LAMP TEST-NORMAL	✓					

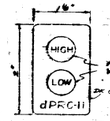
NOTE: R.V. CONTROL KNOB AND A CORRESPONDING LAMP TEST SHALL BE PROVIDED FOR BOTH THE OPERATIONS PANEL AND FOR THE ANNUNCIATORS.
OPERATIONS PANEL ALARM LIGHTS SHALL BE RED.
ANNUNCIATOR ALARM LIGHTS SHALL BE WHITE.



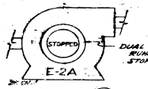
DETAIL (1)
FULL
DIFFERENTIAL PRESSURE TRANSMITTER
TYPICAL



DETAIL (2)
FULL
PNEUMATIC SELECTOR SWITCH
TYPICAL



DETAIL (3)
PARC
dPRC
WITH ALARMS
TYPICAL



DETAIL (4)
FULL
EXHAUSTER / COMPRESSOR
TYPICAL
SAMPLE PUSHBUTTONS 11 THRU 14 ARE SHOWN; EXCEPT THAT ONLY ONE SHALL BE ALARMED

PILOT LIGHT LIST

PILOT LIGHT N°	ACTUATED BY	REMARKS
PL-1	V-11 L.S.	
PL-2	V-21 L.S.	
PL-3	V-31 L.S.	
PL-4	EV-1 L.S.	
PL-5	CV-34 L.S.	
PL-6	CV-54 L.S.	
PL-7	CV-44 L.S.	
PL-8	PUMP MOTOR L.S.	
PL-9	CV-104 L.S.	
PL-10	PURGE VALVE L.S.	
PL-11	CV-103 L.S.	
PL-12	PURGE VALVE L.S.	
PL-13	CV-15 L.S.	
PL-14	CV-35 L.S.	
PL-15	CV-55 L.S.	
PL-16	V-12 L.S.	
PL-17	V-22 L.S.	
PL-18	V-32 L.S.	
PL-19 & 20	SW-AV-11	
PL-20 & 21	SW-AV-21	
PL-21 & 22	SW-AV-31	
PL-22	V-13 L.S.	
PL-23	V-23 L.S.	
PL-24	V-33 L.S.	
PL-25	V-14 L.S.	
PL-26	V-24 L.S.	
PL-27	V-44 L.S.	
PL-28	V-15 L.S.	
PL-29	V-25 L.S.	
PL-30	V-35 L.S.	
PL-31	V-16 L.S.	
PL-32	V-26 L.S.	
PL-33	V-36 L.S.	
PL-34	V-46 L.S.	
PL-35	PS-80	
PL-36	CV-57 L.S.	
PL-37	CV-58 L.S.	
PL-38	EV-83 L.S.	

ALARM LIGHT LIST

ALARM N°	ACTUATED BY	REMARKS
A-1	O_2 EC-11	
A-2	O_2 RC-11	SET AT 1% O_2
A-3	O_2 RC-21	CONCENTRATION
A-4	O_2 ANALYZER #1	SET AT 20 CC/MIN.
A-5	O_2 ANALYZER #1	
A-6	O_2 ANALYZER #1	
A-7	TIC-11	
A-8	SEISMIC SIGNAL	
A-9	TIC-21	
A-10	SEISMIC SIGNAL	
A-11	TIC-21	
A-12	SEISMIC SIGNAL	
A-12a,1	SIREC-11	
A-12a,2	H_2 RPC-31	PRESSURE SETTING:
A-12a,3	H_2 RC-81	RPC-1 $\frac{1}{2}$ PSIG
A-13		LOW - $\frac{1}{2}$ PSIG
A-14	EMERGENCY SHUTDOWN	
A-15	EMERGENCY SHUTDOWN	
A-16	EMERGENCY SHUTDOWN	
A-17	EMERGENCY SHUTDOWN	
A-18	EMERGENCY SHUTDOWN	
A-19	EMERGENCY SHUTDOWN	
A-20	EMERGENCY SHUTDOWN	
A-21	NOT USED	
A-22	SPARE - NOT USED	
A-23	SPARE - NOT USED	
A-24	NOT USED	

ANNUNCIATOR
TAG N° AL-113

1	2	3	4	5
6	7	8	9	10

WINDOW N°	ALARM N°	INSCRIPTION 1ST LINE	2ND LINE	3RD LINE	ACTUATOR
1		COOLING H2O SYS	STOPPED	WHAT N°?	STARTER
2		COOLING H2O SYS	STOPPED	TRANSFER LOCK	STARTER
3		COOLING FAN E-2	STOPPED	VAULT N°2	STARTER
4		INSTR. AIR SUPPLY	LOW	PRESSURE	P-61
5		N2 SUPPLY	LOW	PRESSURE	P-121, 43
6		CHART RANGE	0-5 - 40	F.R.R.-60	RECORDERS
7		EXHAUST FAN	E-1	STOPPED	STARTER
8					
9					
10					

ANNUNCIATOR
TAG N° AL-117

1	2	3	4	5
6	7	8	9	10

WINDOW N°	ALARM N°	INSCRIPTION 1ST LINE	2ND LINE	3RD LINE	ACTUATOR
1		SUMP#1 WATER LEVEL	HIGH	LEVEL	
2		SUMP#2 WATER LEVEL	HIGH	LEVEL	
3		TRENCH WATER LEVEL	HIGH	LEVEL	
4		DIESEL DAY TANK	LOW	LEVEL	
5		PLANT AIR	LOW	PRESSURE	P-1 - 181
6		PLANT AIR	HIGH	TEMPERATURE	P-1 - 181
7	PA-E	ABOVE GR. TANKS	HIGH	PRESSURE	PA-11, 83
8		ACIDS AREA SUMP	HIGH	LEVEL	
9		SUB-SURFACE DRAIN	HIGH	LEVEL	See Dwg. H63-1-E-23
N°		EMERGENCY	GENERATOR		PB-1 PB-2 ENGINE RUNNING

NOTES:

1. FOR FLOW / CONTROL DIAGRAM SEE DWG.# H63-1-E-MV-1.
2. FOR ELECTRICAL SCHEMATICS SEE DWG.# H63-1-E-ET, #19
3. INSCRIPTIONS WITHIN EMPHENOLIC NAME PLATES, PILOT LIGHTS AND ALARM LIGHT LENSES SHALL BE ENGRAVED AS SHOWN ON DWG.
4. LETTERING IN BALLOONS & OUTLINE SYMBOLS & L.S. ARE FOR REFERENCE ONLY AND SHALL NOT APPEAR ON THE PANEL.
5. OPERATIONS PANEL AND ANNUNCIATORS SHALL BE MOUNTED ON THE FACILITY CONTROL PANEL. SEE DWG. N° H63-1-E-11.

HALF SIZE PRINT

REVISIONS	BY	CK	APPROVED
11-21-1963 Relief Valve Lamp Test Alarm	KA		
0 ISSUED FOR CLIENT APPROVAL	KA	AK	
1 AS BUILT	KA	AK	

APPROVED FOR THE ATOMIC ENERGY COMMISSION
[signature]

SNAP-IX FACILITY, SANTA SUSANA, CALIFORNIA
PHASE II.
U.S. ATOMIC ENERGY COMMISSION
CHICAGO OPERATIONS OFFICE

ENVIRONMENTAL TEST BUILDING
OPERATIONS PANEL
INSTRUMENTATION

THE RALPH M. PARSONS COMPANY, LOS ANGELES

962-654-PE1
H63-1-E-13-36

REV. 1